### (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

# (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 20 January 2005 (20.01.2005)

**PCT** 

## (10) International Publication Number WO 2005/005077 A1

(51) International Patent Classification7:

B21D 53/78

(21) International Application Number:

PCT/NL2004/000493

(22) International Filing Date:

8 July 2004 (08.07.2004)

(25) Filing Language:

Dutch

(26) Publication Language:

English

(30) Priority Data: 1023896

11 July 2003 (11.07.2003) N

- (71) Applicant (for all designated States except US): STORK FOKKER AESP B.V. [NL/NL]; Industrieweg 4, NL-3351 LB Papendrecht (NL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): DE BEEN, Petrus, Hendrikus [NL/NL]; Nieuwstraat 29, NL-4926 BE Lage Zwaluwe (NL). STRAATSWA, Ettje-Neeltje [NL/NL]; Voorstraat 31, NL-4797 BE Willemstad (NL). V.D. POL, Maurits, Egbertus [NL/NL]; Dr. Rietveldplein 22, NL-3353 SJ Papendrecht (NL).

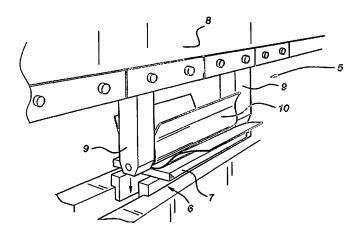
- (74) Agents: VAN WESTENBRUGGE, Andries et al.; Nederlandsch Octrooibureau, Scheveningseweg 82, P.O. Box 29720, NL-2502 LS The Hague (NL).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Published:

with international search report

[Continued on next page]

(54) Title: METHOD FOR THE PRODUCTION OF A SEMI-FINISHED PRODUCT FOR A WING-SHAPED ELEMENT



(57) Abstract: A method for the production of a semi-finished product (13) for a wing-shaped element (15) having, in cross-section, a front edge (2), a rear edge (14) and an arched bottom wall (3) and an arched top wall (4) that extend some distance apart between the front edge (2) and the rear edge (14), comprises the following steps: bending the sheet (1) with the formation of two panels (3, 4) as well as a curved region (2) which the panels (3, 4) adjoin, placing a former (10) in the bent sheet (1) with the front edge of the former (9) positioned in the curved region (2), forcing the pressure member (8) towards a rubber cushion (7) with the bent sheet (1) enclosed between them and deforming said sheet between the former (10) and the rubber cushion (7), placing the shaped sheet (F) in a rubber press provided with a bottom block having a cavity (16) which has a shape that at least approximately corresponds to the external shape of one of the walls (3, 4) of the shaped sheet (P), pressing the shaped sheet (F) with former (10) between the bottom block (11) and a rubber mat (12), removing the semi-finished product (13) from the rubber press.

### WO 2005/005077 A1



before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.